

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/656,811ADATE: 02/07/97  
TIME: 16:32:23

INPUT SET: S15387.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

#7

## SEQUENCE LISTING

ENTERED

1  
2  
3 (1) General Information:  
4  
5 (i) APPLICANT: Bartsch, Dusan  
6 Kandel, Eric R.  
7 Ghirardi, Mirella  
8  
9 (ii) TITLE OF INVENTION: A METHOD FOR ENHANCING LONG-TERM MEMORY IN A  
10 SUBJECT AND USES THEREOF  
11  
12 (iii) NUMBER OF SEQUENCES: 20  
13  
14 (iv) CORRESPONDENCE ADDRESS:  
15 (A) ADDRESSEE: Cooper & Dunham LLP  
16 (B) STREET: 1185 Avenue of the Americas  
17 (C) CITY: New York  
18 (D) STATE: New York  
19 (E) COUNTRY: U.S.A.  
20 (F) ZIP: 10036  
21  
22 (v) COMPUTER READABLE FORM:  
23 (A) MEDIUM TYPE: Floppy disk  
24 (B) COMPUTER: IBM PC compatible  
25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30  
27  
28 (vi) CURRENT APPLICATION DATA:  
29 (A) APPLICATION NUMBER:  
30 (B) FILING DATE:  
31 (C) CLASSIFICATION:  
32  
33 (viii) ATTORNEY/AGENT INFORMATION:  
34 (A) NAME: White, John P.  
35 (B) REGISTRATION NUMBER: 28,678  
36 (C) REFERENCE/DOCKET NUMBER: 50865/JPW/JML  
37  
38 (ix) TELECOMMUNICATION INFORMATION:  
39 (A) TELEPHONE: 212-278-0400  
40 (B) TELEFAX: 212-391-0525  
41  
42  
43 (2) INFORMATION FOR SEQ ID NO:1:  
44  
45 (i) SEQUENCE CHARACTERISTICS:  
46 (A) LENGTH: 379 amino acids

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/656,811ADATE: 02/07/97  
TIME: 16:32:25

INPUT SET: S15387.raw

47 (B) TYPE: amino acid  
48 (C) STRANDEDNESS: single  
49 (D) TOPOLOGY: linear  
50

51 (ii) MOLECULE TYPE: peptide  
52  
53  
54  
55

56 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
57

58 Met Glu Leu Asp Leu Trp Ser Glu Asp Phe Gln Leu Ala Arg Glu Trp  
59 1 5 10 15  
60

61 Gly Leu Glu Met Pro Val Val Gln Thr Asp Gly Gln Phe Gly Asp Leu  
62 20 25 30  
63

64 Lys Ser Thr Ser Arg His Gly Gly Asp Glu Ser Leu Ser Leu Gln Pro  
65 35 40 45  
66

67 Gln Gly Ala Thr Leu Lys Leu Glu Pro Phe Glu Glu Asp Val Leu Gly  
68 50 55 60  
69

70 Ala Glu Trp Met Glu Ser Ser Asp Leu Gly Ser Phe Leu Asp Ala Leu  
71 65 70 75 80  
72

73 Gly Asp Asn His Glu Arg Leu His Pro Phe Glu Ser Asn Leu Leu Glu  
74 85 90 95  
75

76 Phe Thr Ser Leu Ile Thr Pro Asp Asp Ser Thr Val Ser Lys Asp Ile  
77 100 105 110  
78

79 Leu Ser Ser Thr Leu Gln Phe Pro Thr Gln Pro Val Asn Ile Pro Leu  
80 115 120 125  
81

82 Tyr Ala Ser His Gly Ala Glu Asp Phe Ser Ala Glu Thr Glu Phe Glu  
83 130 135 140  
84

85 Asn His Leu Ser Pro Pro Asp Ser Pro Glu Gln Val Ala Pro Val Ile  
86 145 150 155 160  
87

88 Asn Leu Glu Pro Val Glu Leu Thr Ala Ser His Met Thr Val Ile Ser  
89 165 170 175  
90

91 Pro Asp Gly Leu Leu Gly Gly Met Glu Leu Ala Ser Glu Ser Leu Thr  
92 180 185 190  
93

94 Phe Thr Glu Leu Asp Phe Val Asn Phe Asn Asp Ser Ala Val Gly Ser  
95 195 200 205  
96

97 Ile Gly Gly Ala Glu Glu Leu Leu Gly Ser Pro Leu Ser Val Asp Asp  
98 210 215 220  
99

# RAW SEQUENCE LISTING PATENT APPLICATION: US/08/656,811A

DATE: 02/07/97

TIME: 16:32:27

INPUT SET: S15387.raw

```

100 Val Glu Ser Thr Ile Ser Phe Ser Gly Pro Ser Ser Pro Glu Thr Ser
101 225 230 235 240
102
103 Gln Ser Ser Ile Ile Glu Ser Ser Pro Glu Leu Tyr Lys Val Ile Ser
104 245 250 255
105
106 Thr Ser Ser Ile Asp Ala Ser Lys Arg Phe Ser Pro Tyr Ser Arg Ser
107 260 265 270
108
109 Ser Lys Ser Lys Gln Ser Val Lys Thr Ser Asp Ala Lys Ala Pro Arg
110 275 280 285
111
112 Lys Thr Arg Thr Pro Ala Gln Pro Val Pro Glu His Val Ile Met Glu
113 290 295 300
114
115 His Leu Asp Lys Lys Asp Arg Lys Lys Leu Gln Asn Lys Asn Ala Ala
116 305 310 315 320
117
118 Ile Arg Tyr Arg Met Lys Lys Lys Gly Glu Ala Gln Gly Ile Lys Gly
119 325 330 335
120
121 Glu Glu Gln Glu Leu Glu Glu Leu Asn Thr Lys Leu Lys Thr Lys Val
122 340 345 350
123
124 Asp Asp Leu Gln Arg Glu Ile Lys Tyr Met Lys Asn Leu Met Glu Asp
125 355 360 365
126
127 Val Cys Lys Ala Lys Gly Ile Gln Leu Lys Met
128 370 375
129
130

```

## (2) INFORMATION FOR SEQ ID NO:2:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 73 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: peptide

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

```

146 Leu Asp Lys Lys Asp Arg Lys Lys Leu Gln Asn Lys Asn Ala Ala Ile
147 1 5 10 15
148
149 Arg Tyr Arg Met Lys Lys Lys Gly Glu Ala Gln Gly Ile Lys Gly Glu
150 20 25 30
151
152 Glu Gln Glu Leu Glu Glu Leu Asn Thr Lys Leu Lys Thr Lys Val Asp

```

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/656,811A

DATE: 02/07/97

TIME: 16:32:29

INPUT SET: S15387.raw

153                                   35                                   40                                   45  
154  
155       Asp Leu Gln Arg Glu Ile Lys Tyr Met Lys Asn Leu Met Glu Asp Val  
156           50                                   55                                   60  
157  
158       Cys Lys Ala Lys Gly Ile Gln Leu Lys  
159       65                                   70  
160  
161

## 162 (2) INFORMATION FOR SEQ ID NO:3:

## 163 (i) SEQUENCE CHARACTERISTICS:

- 164 (A) LENGTH: 8 base pairs
- 165 (B) TYPE: nucleic acid
- 166 (C) STRANDEDNESS: single
- 167 (D) TOPOLOGY: linear

## 168 (ii) MOLECULE TYPE: DNA (genomic)

171

172

173

174

## 175 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

176

177 TGACGTCA

8

178

## 179 (2) INFORMATION FOR SEQ ID NO:4:

180

## 181 (i) SEQUENCE CHARACTERISTICS:

- 182 (A) LENGTH: 14 base pairs
- 183 (B) TYPE: nucleic acid
- 184 (C) STRANDEDNESS: single
- 185 (D) TOPOLOGY: linear

186

## 187 (ii) MOLECULE TYPE: DNA (genomic)

188

189

190

191

## 192 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

193

194 AGTATTGCGT CATC

14

195

## 196 (2) INFORMATION FOR SEQ ID NO:5:

197

## 198 (i) SEQUENCE CHARACTERISTICS:

- 199 (A) LENGTH: 14 base pairs
- 200 (B) TYPE: nucleic acid
- 201 (C) STRANDEDNESS: single
- 202 (D) TOPOLOGY: linear

203

## 204 (ii) MOLECULE TYPE: DNA (genomic)

205

INPUT SET: S15387.raw

206

207

208

209 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

210

211 ACTATTGCGC AATC

14

212

213 (2) INFORMATION FOR SEQ ID NO:6:

214

215 (i) SEQUENCE CHARACTERISTICS:

216 (A) LENGTH: 20 base pairs

217 (B) TYPE: nucleic acid

218 (C) STRANDEDNESS: single

219 (D) TOPOLOGY: linear

220

221 (ii) MOLECULE TYPE: DNA (genomic)

222

223

224

225

226 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

227

228 TTCCGCTTTC CATAAGTCGA

20

229

230 (2) INFORMATION FOR SEQ ID NO:7:

231

232 (i) SEQUENCE CHARACTERISTICS:

233 (A) LENGTH: 20 base pairs

234 (B) TYPE: nucleic acid

235 (C) STRANDEDNESS: single

236 (D) TOPOLOGY: linear

237

238 (ii) MOLECULE TYPE: DNA (genomic)

239

240

241

242

243 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

244

245 ACCTGAAAAAT GATATTGTAC

20

246

247 (2) INFORMATION FOR SEQ ID NO:8:

248

249 (i) SEQUENCE CHARACTERISTICS:

250 (A) LENGTH: 37 base pairs

251 (B) TYPE: nucleic acid

252 (C) STRANDEDNESS: single

253 (D) TOPOLOGY: linear

254

255 (ii) MOLECULE TYPE: DNA (genomic)

256

257

258

PAGE: 1

**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION. US/08/656,811A**

DATE: 02/07/97

TIME: 16:32:34

**INPUT SET: S15387.raw**

Line

Error

Original Text